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Computer Products Transmittal

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NTIS COMPUTER PRODUCTS CATALOG DATA SHEET

15, COMPUTER PRODUCT ABSTRACT

HEC-1 is a mathematical watershed model designed to simulate the surface runoff response of a river basin to precipitation by representing the basin as an interconnected system of hydrologic and hydraulic components. Each component models an aspect of the precipitation-runoff process within a portion of the basin. A component may represent a surface runoff entity, a stream channel or a reservoir, defined by parameters specifying its characteristics and the mathematical relations describing the physical processes. The result of the modeling process is computation of streamflow hydrographs at desired locations in the river basin. All ordinary flood hydrograph computations associated with a single recorded or hypothetical storm can be accomplished with this package. Capabilities include rainfall-snowfall-snowmelt determinations, computations of basin precipitation, unit hydrographs, kinematic wave transforms, and hydrograph; routing by reservoir, storage-lag, multiple storage, straddle-stagger, Tatum, Muskingum, and kinematic wave methods; and complete stream system hydrograph combining and routing. Bestfit unit hydrograph, loss-rate, snowmelt, base freezing temperatures and routing coefficients can be derived automatically. Automatic printer plot routines are also provided. AEC-1 may also be used to simulate flow over and through breached dams. Expected annual flood damage can be also be computed for any location in the river basin. ...Software Description: The program is written in FORTRAN 77 for implementation on IBM PC/XT compatible equipment, using MS/PC DOS 2.1+ operating system. Minimum of 640 K bytes core. Two 5%" floppy disk drives, or one 54"floppy disk drive and a 10 MB hard disk Math coprocessor (8087, 80287,80387) highly recommended but not required. Hard disk is required to run MENUl.

16. DATA FILE TECHNICAL DESCRIPTION

The software is contained on __5½ -inch diskette(s), __double density (360K), compatible with the __IBM_PC/XT_ microcomputer. The diskettes are in the ASCII format.

17. SOFTWARE TECHNICAL DESCRIPTION								
Software is written in;								
Fortran X COBOL Basic Assembly Software requires;	Other (Specify) FORTRAN 77							
CPR Mfr. IBM PC Model(s) XT	Operating system(s) MS/PC DOS 2.1+							
Minimum of $\frac{640}{100}$ K bytes core. The following special Two $5\frac{1}{4}$ " floppy disk drives, or one $5\frac{1}{4}$ " Math coprocessor (8087, 80287, 80387) h								
disk is required to run MENU1.								
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HEC-1 is provided on three 5% double-sided 360 KB floppy diskettes, as follows:																
(1) INSTALL1 - installation program; (2) COED - Corps of Engineers full-screen editor:																
(3) HEC1 - program files, implementation guide (file README.DOC).																
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Standard Form 277 (12-77) U.S. Dept. of Commerce-NBS